CERTIFICATE OF Applicant(s): Masayoshi	Docket No. 121036-0092		
Application No.	Filing Date July 28, 2006	UnknowFENTRAL	CEIVED Group Art Unit FAX CENTER Unknown
Invention:	F PRODUCING ACRYLIC COP	POLYMER FEB	2 2 2007
I hereby certify that this		f International Preliminary Rep (Identify type of correspondence)	
is being facsimile transm	nitted to the United States Patent		lo. <u>571-273-8390</u>
on February 2			·
(Dust)			
		Michael S. Gz	
		(Typed or Printed Name of Perso	on Signing Certificate)
	/	Milail John	wr-
			÷
	Note: Each paper must ha	ave its own certificate of mailing.	
•			

PATENT COOPERATION TREATY

PCT/JP2005/005114

From the INTERNATIONAL BUREAU

\mathbf{PCT}

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

YOSHIDA, Toshlo Yoshida Patent Office Bidg.	No.202, Hillside Ebisu
21-11, Ebisuminami 1-chome	•
Shibuya-ku, Takyo 1500022 JAPON	

Date of mailing (day/month/year) 23 November 2006 (23.11.2006)	
Applicant's or agent's file reference 19495	IMPORTANT NOTIFICATION
International application No. PCT/JP2005/005114	International filing date (day/mondv/year) 22 March 2005 (22.03.2005)
Applicant . U	NIMATEC CO., LTD. et al

1.	Transmittal	of the	translation	to	the applicant.

The International Bureau transmits berewith a copy of the English translation of the international preliminary report on patentability (Chapter I).
The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DÉ, DK, DM, DZ, EA. EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombeues 1211 Geneva 20, Switzerland	Authorized officer Yoshiko Kuwahara
Facsimile No. +41 22 338 82 70	Facsimile No. +41 22 338 82 70

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference	FOR FURTHER ACTION	See item 4 below		
International application No. PCT/JP2005/005114	International filing date (day/month/year) 22 March 2005 (22.03.2005)	Priority date (day/month/year) 24 March 2004 (24.03.2004)		
International Patent Classification (8th See relevant information in Form F	h edition unless older edition indicated) PCT/ISA/237	V 10		
Applicant UNIMATEC CO., LTD.				

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis. 1(a).									
2.	This REPORT consists of a total of 5 sheets, including this cover sheet.									
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.									
3.	This report contains indication	ns relating to the following items:								
	Box No. I	Basis of the report								
	Box No. II	Priority								
Box No. III Non-establishment of opinion with regard to novelty, inventive step and ind applicability										
	Box No. IV Lack of unity of invention									
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
	Box No. VI	Certain documents cited								
	Box No. VII	Certain defects in the international application								
	Box No. VIII	Certain observations on the international application								
4.		communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but t makes an express request under Article 23(2), before the expiration of 30 months from the priority								

	Date of issuance of this report 14 November 2006 (14.11.2006)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Yoshiko Kuwahara
Facsimile No. +41 22 338 82 70	e-mail: pt07@wipo.int

Form PCT/IB/373 (January 2004)

From the	ne National searching autho	DRMY		ANSI				
To:				PCT PCT				
!				RITTEN OPINION OF THE IONAL SEARCHING AUTHORITY				
				(PCT Rule 43bis.1)				
			Date of mailing (day/month/year)	28.06.2005				
	nni's or agent's file reference		FOR FURTHER A					
194		Tr		See paragraph 2 below				
1	tional application No. C/JP2005/005114	laternational filing date ((даутомпусы)	Priority date (day/month/yeur) 24.03.2004				
	tional Patent Classification (IPC) or be		d IPC					
	3F20/24, 2/30, COS	_	****					
Applica	nrs	······································	······································					
UNI	MATEC CO., LTD.							
1.	This opinion contains indications relating to the following items:							
	Box No. 1 Basis of the	he opinion						
	Box No. II Priority							
		lishment of opinion with reg	egard to novelty, inventive step and industrial applicability					
	Box No. IV Lack of un	nity of invention						
	Box No. V Reasoned applicability	statement under Rule 43bis. ity; citations and explanation		ovelty, inventive step or industrial ement				
	Box No. VI Certain do	cuments cited						
	Box No. VII Certain de	fects in the international app	olication					
	Box No. VIII Certain ob	servations on the internation	onal application					
2.	FURTHER ACTION							
	International Preliminary Examining	g Authority ("IPEA") except ie chosen IPEA has notified	t that this does not apple the International Bure	be considered to be a written opinion of the ly where the applicant chooses an Authority other au under Rule $66.1bis(b)$ that written opinions of				
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPE written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.								
	For further options, see Form PCT/I	\$A/220.						
3.	For further details, see notes to Form	PCT/ISA/220.						
Name a	nd mailing address of the ISAJP		Authorized officer					
		i	Telephone No.					

Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2005/005114

Ba	No. I	Basis of this option .
1.	With	n regard to the language, this opinion has been established on the basis of the international application in the language in which it was Lunless otherwise indicated under this item.
1	Ш	This opinion has been established on the basis of a translation from the original language into the following language
		, which is the language of a translation furnished for the purposes of international search (under
		Rule 12.3 and 23.1(b)).
2.		regard to any nucleotide and/or smino acid sequence disclosed in the international application and necessary to the claimed attor, this opinion has been established on the basis of:
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written format
		in computer readable form
	c.	time of filing/furnishing
		contained in the international application as filed.
		filed together with the international application in computer readable form.
	ĺ	furnished subsequently to this Authority for the purposes of scarch.
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filled or familianed, the required statements that the information in the subsequent or additional copies is identical to that in the application as filled or does not go beyond the application as filled, as appropriate, were familiand.
4 .	Addit	ional comments:
		•
		• 9
•		·

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2005/005114

Ba	x No. V	Ressoned s citations an						יטמ	elty, invent	ive step or	industrial applicabi	lity:
1.	Statement											•
	Novelty	M	c	Claims	1-4							YES
												NO
	Inventive	step (IS)	c	lains								YES
			c		1-4							NO
	Industrial	applicability	(IA) C	laims	1-4							YES
			c	laims .								мо
2.	Citations and	explanations									· · · · · · · · · · · · · · · · · · ·	
	Docume	nt 1:	JP 6	4-05	6711	A	(Daikin	I	Indust	ries,	Ltd.), 3	

March 1989

Document 2: JP 2002-256257 A (Asahi Glass Co., Ltd.), 11

September 2002

Document 3: JP 04-080218 A (Asahi Glass Co., Ltd.), 13

March 1992

Document 4: JP 2002-241441 A (Asahi Glass Co., Ltd.), 28

August 2002

The inventions set forth in claims 1-4 do not involve an inventive step in the light of documents 1 and 2 and documents 3 and 4 cited in the international search report.

Documents 1 and 2 disclose emulsion polymerization of a monomer mixture containing an acrylic acid ester monomer having a perfluoroalkyl group, stearyl (meth) acrylate and N-methylolacrylamide, and optionally acrylamide, in the presence of a surfactant.

Documents 1 and 2 do not disclose concomitant use of a surfactant and a poly(propylene glycol) compound during the polymerization; however, documents 3 and 4 mention that concomitant use of a poly(propylene glycol) compound is preferred when using emulsion polymerization to

Form PCT/ISA/237 (Box No. V) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2005/005114

Box No. V

Reasoned statement under Rule 43bis.1(u)(i) with regard to accelty, inventive step or industrial applicability; citations and explanations supporting such statement

produce water=repellent_oil=repellent polymers having a perfluoroalkyl group, in order to heighten emulsion stability, etc.

Therefore, in order to heighten emulsion stability, etc., a person skilled in the art could easily use a poly(propylene glycol) compound concomitantly in the inventions disclosed in documents 1 and 2, which relate to using emulsion polymerization to produce water-repellent oil-repellent polymers having a perfluoroalkyl group, to give the inventions set forth in claims 1-4.